This Page Is Inserted by IFW Operations and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

As rescanning documents will not correct images, please do not report the images to the Image Problem Mailbox.

AMENDMENTS TO THE CLAIMS:

Claims 1-33 (Canceled)

- 34. (Currently amended) A transgenic mouse whose genome comprises a disruption in the endogenous mouse anaphylatoxin C3a receptor gene, wherein where the disruption is homozygous and the mouse is male, the transgenic mouse lacks production of functional anaphylatoxin C3a receptor and exhibits, relative to a wild-type mouse, reduced thymus weight, reduced thymus size, reduced thymus to body weight ratio, increased susceptibility to seizure or a stimulus processing deficit, and wherein where the disruption is homozygous and the mouse is female, the transgenic mouse lacks production of functional anaphylatoxin C3a receptor and exhibits, relative to a wild-type mouse, increased susceptibility to seizure or a stimulus processing deficit.
- 35. (Previously presented) The transgenic mouse of claim 34, wherein the increased susceptibility to seizure is characterized by a lower dose of metrazol required to reach characteristic stages of seizure, relative to a wild-type mouse.
- 36. (Previously presented) The transgenic mouse of claim 34, wherein the stimulus processing deficit is characterized by a decrease in prepulse inhibition, relative to a wild-type mouse.
- 37. (Previously presented) A cell or tissue obtained from the transgenic mouse of claim 34.
- 38. (Canceled)
- 39. (Canceled)
- 40. (Canceled)
- 41. (Currently amended) A method of producing a transgenic mouse comprising whose genome comprises a disruption in the endogenous mouse anaphylatoxin C3a receptor gene, the method comprising:
 - (a) introducing a targeting construct capable of disrupting <u>the endogenous mouse</u> anaphylatoxin C3a receptor gene into a mouse embryonic stem cell;
 - (b) introducing the mouse embryonic stem cell into a blastocyst;
 - (c) implanting the blastocyst into a pseudopregnant mouse, wherein the pseudopregnant mouse gives birth to a chimeric mouse; and
 - (d) breeding the chimeric mouse to produce the transgenic mouse <u>comprising whose</u> genome comprises the disruption in <u>the endogenous</u> mouse anaphylatoxin C3a receptor gene;

wherein where the disruption is homozygous and the mouse is male, the transgenic mouse lacks production of functional anaphylatoxin C3a receptor and exhibits, relative to a wild-type mouse, reduced thymus weight, reduced thymus size, reduced thymus to body weight ratio, increased susceptibility to seizure or a stimulus processing deficit, and wherein where the disruption is homozygous and the mouse is female, the transgenic mouse lacks production of functional anaphylatoxin C3a receptor and exhibits, relative to a wild-type mouse, increased susceptibility to seizure or a stimulus processing deficit.

42. (Previously presented) The transgenic mouse produced by the method of claim 41.